

TDMS No. 20515 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Metal working fluids (CIMSTAR 3800)

CAS Number: CIMSTAR3800

Date Report Requested: 10/21/2008

Time Report Requested: 07:18:30

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

F1_M3

C Number: C20515
Lock Date: 04/04/2007
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.0.0

| B6C3F1 MICE MALE | 0 mg/m3 | 25 mg/m3 | 50 mg/m3 | 100 mg/m3 | 200 mg/m3 | 400 mg/m3 |
|-----------------------------------|---------|----------|----------|-----------|-----------|-----------|
| Disposition Summary | | | | | | |
| Animals Initially in Study | 10 | 10 | 10 | 10 | 10 | 10 |
| Early Deaths | | | | | | |
| Survivors | | | | | | |
| Terminal Sacrifice | 10 | 10 | 10 | 10 | 10 | 10 |
| Animals Examined Microscopically | 10 | 10 | 10 | 10 | 10 | 10 |
| ALIMENTARY SYSTEM | | | | | | |
| Liver | (10) | (0) | (0) | (0) | (0) | (10) |
| Cyst | 1 (10%) | | | | | |
| Inflammation, Chronic | 1 (10%) | | | | | |
| Parasite Metazoan | 1 (10%) | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | |
| None | | | | | | |
| ENDOCRINE SYSTEM | | | | | | |
| None | | | | | | |
| GENERAL BODY SYSTEM | | | | | | |
| None | | | | | | |
| GENITAL SYSTEM | | | | | | |
| Testes | (10) | (0) | (1) | (0) | (0) | (10) |
| Germinal Epithelium, Degeneration | | | 1 (100%) | | | |
| HEMATOPOIETIC SYSTEM | | | | | | |
| Spleen | (10) | (0) | (0) | (0) | (1) | (10) |
| Hyperplasia, Lymphoid | | | | | 1 (100%) | |

| B6C3F1 MICE MALE | 0 mg/m3 | 25 mg/m3 | 50 mg/m3 | 100 mg/m3 | 200 mg/m3 | 400 mg/m3 |
|---|---------|-----------|-----------|-----------|-----------|-----------|
| INTEGUMENTARY SYSTEM | | | | | | |
| None | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | |
| None | | | | | | |
| NERVOUS SYSTEM | | | | | | |
| None | | | | | | |
| RESPIRATORY SYSTEM | | | | | | |
| Larynx | (10) | (10) | (10) | (10) | (10) | (10) |
| Inflammation, Chronic Active | | | 4 (40%) | 6 (60%) | 10 (100%) | 9 (90%) |
| Metaplasia, Squamous | | 10 (100%) | 10 (100%) | 10 (100%) | 10 (100%) | 10 (100%) |
| Epiglottis, Dysplasia | | | | | | 6 (60%) |
| Squamous Epithelium, Hyperplasia | | 1 (10%) | | | 7 (70%) | 10 (100%) |
| Lung | (10) | (10) | (10) | (10) | (10) | (10) |
| Infiltration Cellular, Histiocyte | | | | 1 (10%) | 1 (10%) | 1 (10%) |
| Thrombosis, Focal | | | | | | 1 (10%) |
| Arteriole, Hypertrophy | | | | 2 (20%) | 3 (30%) | 4 (40%) |
| Bronchiole, Hyperplasia | | 10 (100%) | 10 (100%) | 10 (100%) | 10 (100%) | 10 (100%) |
| Perivascular, Inflammation, Chronic Active | | | | 3 (30%) | 4 (40%) | 6 (60%) |
| Nose | (10) | (10) | (10) | (10) | (10) | (10) |
| Inflammation, Suppurative | | | | | | 1 (10%) |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | | 7 (70%) | 4 (40%) | 10 (100%) | 10 (100%) | 9 (90%) |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | 8 (80%) | 10 (100%) | 10 (100%) | 10 (100%) | 10 (100%) |
| Trachea | (10) | (10) | (10) | (10) | (10) | (10) |
| Inflammation, Suppurative | | | | | | 1 (10%) |
| Epithelium, Metaplasia, Squamous | | | | | | 1 (10%) |
| SPECIAL SENSES SYSTEM | | | | | | |
| None | | | | | | |
| URINARY SYSTEM | | | | | | |

TDMS No. 20515 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Metal working fluids (CIMSTAR 3800)

CAS Number: CIMSTAR3800

Date Report Requested: 10/21/2008

Time Report Requested: 07:18:30

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

| B6C3F1 MICE MALE | 0 mg/m3 | 25 mg/m3 | 50 mg/m3 | 100 mg/m3 | 200 mg/m3 | 400 mg/m3 |
|--------------------------------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|
| Kidney Renal Tubule, Regeneration | (10) 1 (10%) | (0) | (0) | (0) | (0) | (10) 2 (20%) |

*** END OF MALE ***

| B6C3F1 MICE FEMALE | 0 mg/m3 | 25 mg/m3 | 50 mg/m3 | 100 mg/m3 | 200 mg/m3 | 400 mg/m3 |
|----------------------------------|---------|----------|----------|-----------|-----------|-----------|
| Disposition Summary | | | | | | |
| Animals Initially in Study | 10 | 10 | 10 | 10 | 10 | 10 |
| Early Deaths | | | | | | |
| Survivors | | | | | | |
| Terminal Sacrifice | 10 | 10 | 10 | 10 | 10 | 10 |
| Animals Examined Microscopically | 10 | 10 | 10 | 10 | 10 | 10 |
| ALIMENTARY SYSTEM | | | | | | |
| Intestine Large, Rectum | (10) | (0) | (0) | (0) | (0) | (10) |
| Inflammation, Suppurative | | | | | | 1 (10%) |
| Salivary Glands | (10) | (0) | (0) | (0) | (0) | (10) |
| Inflammation, Chronic | 1 (10%) | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | |
| None | | | | | | |
| ENDOCRINE SYSTEM | | | | | | |
| Thyroid Gland | (10) | (0) | (0) | (0) | (0) | (10) |
| Inflammation, Chronic Active | 1 (10%) | | | | | |
| GENERAL BODY SYSTEM | | | | | | |
| None | | | | | | |
| GENITAL SYSTEM | | | | | | |
| None | | | | | | |
| HEMATOPOIETIC SYSTEM | | | | | | |
| None | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | |

| B6C3F1 MICE FEMALE | 0 mg/m3 | 25 mg/m3 | 50 mg/m3 | 100 mg/m3 | 200 mg/m3 | 400 mg/m3 |
|---|---------|-----------|-----------|-----------|-----------|-----------|
| None | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | |
| None | | | | | | |
| NERVOUS SYSTEM | | | | | | |
| None | | | | | | |
| RESPIRATORY SYSTEM | | | | | | |
| Larynx | (10) | (10) | (10) | (10) | (10) | (10) |
| Inflammation, Chronic Active | | | 1 (10%) | 9 (90%) | 10 (100%) | 10 (100%) |
| Metaplasia, Squamous | | 10 (100%) | 10 (100%) | 10 (100%) | 10 (100%) | 10 (100%) |
| Epiglottis, Dysplasia | | | | | 2 (20%) | 7 (70%) |
| Squamous Epithelium, Hyperplasia | | | | 1 (10%) | 10 (100%) | 10 (100%) |
| Lung | (10) | (10) | (10) | (10) | (10) | (10) |
| Infiltration Cellular, Histiocyte | | | | 1 (10%) | | |
| Arteriole, Hypertrophy | | | | 2 (20%) | 4 (40%) | 2 (20%) |
| Bronchiole, Hyperplasia | | 10 (100%) | 10 (100%) | 10 (100%) | 10 (100%) | 10 (100%) |
| Perivascular, Inflammation, Chronic Active | | | 1 (10%) | 6 (60%) | 8 (80%) | 3 (30%) |
| Nose | (10) | (10) | (10) | (10) | (10) | (10) |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | | 7 (70%) | 10 (100%) | 10 (100%) | 10 (100%) | 10 (100%) |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | 10 (100%) | 10 (100%) | 10 (100%) | 10 (100%) | 10 (100%) |
| Trachea | (10) | (10) | (10) | (10) | (10) | (10) |
| Epithelium, Metaplasia, Squamous | | | | | | 1 (10%) |
| SPECIAL SENSES SYSTEM | | | | | | |
| Eye | (10) | (0) | (0) | (1) | (1) | (10) |
| Lens, Degeneration | | | | 1 (100%) | 1 (100%) | |
| URINARY SYSTEM | | | | | | |
| Kidney | (10) | (0) | (0) | (0) | (0) | (10) |
| Renal Tubule, Regeneration | 1 (10%) | | | | | |

TDMS No. 20515 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Metal working fluids (CIMSTAR 3800)

CAS Number: CIMSTAR3800

Date Report Requested: 10/21/2008

Time Report Requested: 07:18:30

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

| B6C3F1 MICE FEMALE | 0 mg/m3 | 25 mg/m3 | 50 mg/m3 | 100 mg/m3 | 200 mg/m3 | 400 mg/m3 |
|--------------------|---------|----------|----------|-----------|-----------|-----------|
|--------------------|---------|----------|----------|-----------|-----------|-----------|

*** END OF REPORT ***